



hf happenings

no 487



South African Radio League 1925 - 2011 Suid-Afrikaanse Radioliga
Member Society of the International Amateur Radio Union Region 1
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Join the VHF/UHF Group on 7,135 MHz

John, ZS6JON, and Mike, ZS6TAF, invite readers to join the VHF/UHF Group on 7,135 MHz. A suggestion was made on using a HF frequency for sked, band opening announcements and VHF matters.

One does realise that the Internet is the easiest way but not all radio amateurs have Internet 24/7. Some do not have Internet in the shack. We all seem to read the contact reports on e-mail or on the forum once they have already taken place and it is too late to get the full use of the opening. We all seem to have an extra radio or receiver that could be left on a common HF frequency to monitor. One could report in and announce that the PE beacon is being heard in Johannesburg, etc.

In the past, there have been some new radio amateurs that have purchased new radios that have all the features only to use them on HF and a 2 m FM repeater exclusively. Only when they realise that there are Amateurs on 6 or 2 m SSB, they suddenly get enthusiastic to get a VHF antenna up and try. Some of these radios have never been used on SSB at all.

40 m is a common and very active band in South Africa and an Amateur listening around could stumble across us chatting VHF matters and get going. Besides VHF antennas are a lot smaller and lighter. It could back up the current SMS alert system in that all the amateurs listening on that HF frequency could be informed instantaneously what is happening.

After consultation with various parties, we found 7,135 MHz to be the least occupied. We generally would like to use the frequency to announce VHF band openings around the country





and overseas contacts. Ask and answer any questions on VHF or just discuss various VHF matters, propagation and antennas. Come join in the fun of VHF.

Frequencies to Remember:

6 m: 50,110 MHz SSB DX calling frequency

6 m: 50,200 MHz SSB Local calling Frequency.

2 m: 144,300 MHz SSB Local calling Frequency.

70 cm: 432,200 MHz SSB Local calling Frequency

<http://mailman.qth.net/mailman/listinfo/zsvhf>

USA HF Spread Spectrum Experiment

The FCC has issued Phil William, KA1GMN, an experimental license, WF9XJD, to carry out Spread Spectrum transmissions in all the amateur radio HF bands as well as 50 and 144 MHz. The aim is to conduct experiments with spread spectrum, research effectiveness under weak signal conditions and compare against other digital modes such as JT65A, Olivia, MT63 and PSK31.

With effect from 1 February, Phil will be able to make transmissions with an emission designator of 2K50J2D in 160, 80, 40, 30, 20, 17, 15, 12, 10, 6 and 2 meters using 100 watts ERP. While such transmissions may be standard practice in other countries, it is a breakthrough for the United States.

In 1977, the ARRL fought 'tooth and nail' to defeat the FCC's Docket 20777, which proposed to introduce regulation by bandwidth rather than mode. The rules that were put into place after the Docket's defeat effectively crippled the development of HF digital communications in the USA.

The full text of the FCC Grant for WF9XJD see <https://apps.fcc.gov/els/GetAtt.html?id=122008&x>
FCC Experimental Licensing System Call Sign Search <https://apps.fcc.gov/oetcf/els/reports/CallsignSearch.cfm>

The Thoughtful Radio Amateur

The thoughtful Radio Amateur is:

Responsible - using courteous operating practice, complying with regulations and accepted technical standards;

Progressive - striving to develop and improve operating and technical skills;

Helpful - offering assistance, support and encouragement to other Amateurs, especially beginners; and

Public Spirited - offering use of station, knowledge and skills as a public service whenever possible.

Text by Bill Wilson, VE3NR (SK 2010)

GB80PW to get first outing this Thursday

This special call sign GB80PW, issued to Practical Wireless magazine to celebrate the publication's 80th year in print, gets its first airing this Thursday 12 January.

Practical
WIRELESS
Britain's Best Selling Amateur Radio Magazine





PW editor, Rob Mannion, G3XFD says, "We'll be operating GB80PW from my own home station once a month throughout 2012, on the PW publication day - the 2nd Thursday of the month. We are planning to be active between 10:00 and 16:00. Phil Ciotti, G3XBZ, and I will be the operators. We will be on 7 MHz SSB and PSK31 mainly, with some operations on 14 MHz SSB and PSK31.

Rob, G3XFD, Practical Wireless Magazine <http://www.pwpublishing.co.uk>

PAWS - Portable All-terrain Wireless System

The BBC report on a product, developed by former amateur radio company Wood & Douglas, that allows rescue dogs to relay real-time video and audio back to their handlers.

Wood & Douglas Ltd gets its name from the original partnership between Alan Wood and John Douglas. Both were employed in government service, John as a draughtsman and Alan as a physicist, when they began trading as a design consultancy in March 1977. Initially they provided PCB design and manufacture on a sub-contract basis.

By 1979, the Company had leaped ahead, with designer Mike Telkman, G8DCA, a work colleague and fellow radio-amateur, joining the business. Mike designed a range of products to be sold by mail order, aimed at the radio amateur hobbyist market. In 1981, John Douglas resigned with Alan becoming the first full-time employee of Wood & Douglas, followed by Mike in July 1983.

The supply of "kit of parts" to radio amateurs grew into providing complex, high quality RF design solutions to commercial customers. They now specialise in wireless broadcast technology,

Watch the BBC news video 'Dogcam' aids search-and-rescue' www.bbc.co.uk/news/technology-16408901
Basingstoke Gazette - Wood & Douglas on the right wavelength
www.basingstokegazette.co.uk/business/9420913.Wood_Douglas_on_the_right_wavelength/
Wood and Douglas <http://www.woodanddouglas.co.uk/>

New data mode crosses Atlantic on 136 KHz at the first attempt

Running no more than 400 watts to a 12 metre top loaded vertical, with a carrier frequency of 137,5 kHz, estimated ERP of no more than 250 mW, Gary, G4WGT, using the new 'OP-ERA' data system successfully transmitted a signal to Joe, VO1NA, at a range of 3 500 km. Joe completed six decodes of Gary's full call in a period of 2 hours, the first being at 21:43 UTC, unexpectedly early in the night.

In contrast, using the established very slow CW QRSS and visual spectrum decoding, at QRSS 60, the call sign "G4WGT" will take 54 minutes to send and would need to be visible on the plot. The 136 kHz version of Opera taking only 8 or 31 minutes at enhanced s/n performance, the 500 kHz coding taking 2 or 15 minutes.

The OPERA mode was envisaged by Graham, GONBD, as a way of providing data operations for stations that had only the capability of CW operation. To date, all data modes required the modulation of the transmitted carrier, either by frequency, phase or amplitude changes. This was to only use off/on keying.

Outlining the idea to J Ros, EA5HVK, author of the now established ROS Data mode, Jose, after some email exchange's, in turn took on the coding of the mode, using DSP techniques he had refined during the development of the ROS data mode and produced a complete windows compatible Tx/Rx package with internet spotting and chat facility, with com-port keying and audio Tx drive. Far exceeding the original 'idea'!





Initial testing was conducted on the 500 kHz experimental band, with GONDB and G4WGT, later other stations joined the test group and Gus, SM6BHZ, made successful 136 transmissions using the then OP65 mode.

Opera encodes the data and keys the transmitter with a sequence of variable length 'dots and dashes' extend out along a time line, with surprising results, the 2 minute version achieving a s/n performance similar to the established WSPR system and the longer versions are capable of many dB's lower.

Reception is facilitated in the normal 'data' way of taking audio from the receiver and decoding with software, decoding may take place with up to 33% data loss, development continues at a pace and the most up to date info can be found at http://groups.yahoo.com/group/O_P_E_R_A/

OPERA is now listed as a mode on the PSK-Reporting map

African DX

Democratic Republic of the Congo, 9Q. A couple of sources are reporting that Sergiy, UV5EVJ (ex-5X1VJ), will be active from the Province of Katanga between 12 January and 9 May. He is there as part of a UN peacekeeping mission (MONUSCO). Sergiy is currently waiting for a call sign. Activity will be limited due to his work duties, but look for him on 80 - 10 metres using CW and SSB. QSL via his home call sign, direct or by the Bureau.

Burkina Faso, XT. Jon, K3QF, is now active as XT2RJA from Ouagadougou until 18 January. He has already been active on 20 m CW, but hopes to be other bands too. There is no room for a 160 m antenna. QSL via K3QF.

Senegal, 6W. Francis, F6BLP, will be active again as 6W7SK from Senegal from 20 January to 3 February. He plans to focus on the low bands using CW. QSL via F6BLP.

Congo, TN. 6 operators (namely ON4BR, ON4FG, ON4HIL, ON4IA, ON6CC and PA3EWP) will be active as TN2T from Congo from 22 - 31 January. They will have three stations active on 160 - 10 metres SSB, CW and RTTY, with a focus on 160 and 80 m. Further information can be found at www.tn2t.be. QSL via MOURX, preferably via the OQRS facility on <http://mOurx.com/oqrs> for either direct and bureau requests. The log will be uploaded to LoTW "at the earliest opportunity".

Tunisia, 3V. Look for Ash, KF5EYY, to be active once again as 3V8SS from the club station in Hammam Sousse, Tunisia, during the CQ 160 Metre CW Contest (27 - 29 January) as a Single-Op/Low-Power entry, CQ zone 33. QSL via LX1NO, direct only. Website www.kf5eyy.com/

Sudan, ST. Robert, ST2AR is usually active on 80 and then 40 metres using CW around 04:00 UTC. QSL via S53R.

Lesotho, 7P. A team led by Donovan, ZS2DL, plans activity from Lesotho between 9 and 19 November 2012. The aim is to activate Lesotho on 80 to 10 m using CW and RTTY, to give this entity to as many deserving DXers as possible. They will not be doing much SSB on this trip. The call sign has not yet been assigned. The team is currently looking for other operators to join. QSL direct (Lesotho DXpedition 2012, PO Box 29169, Sunridge Park 6008, South Africa). To cover cost we request a donation of \$2 with your QSL card. Please no IRCs as it is difficult to convert at the local post office. An OQRS system will also be implemented just before the expedition.





African Islands

Rodrigues Island, 3B9. Erich, OE4AAC, will be active as 3B9/OE4AAC from Rodrigues Island (AF-017) between 14 - 21 February. He will operate CW only on 40 - 10 metres. QSL via home call, direct or bureau.

Ascension Island, ZD8, AF-003. Sted, ZD8S, has again been spotted on 20 m SSB with his new antenna. His equipment includes a TS-480 and a 20 m vertical dipole. Sted also plans other antenna projects. QSL only direct.

Special Events

Denmark has the Presidency of European Union from 1 January to 30 June 2012 and the call sign 5P12EU will be activated during this period. QSL cards will be available and there is an award scheme for working or hearing this call sign. For all details on QSLing, the award scheme and logs, check out www.5p12eu.dk.

IRTS 80th Anniversary. The Irish Radio Transmitters Society will be celebrating its 80th anniversary this year. Details of a worldwide contest - CQIR - to take place on Saint Patrick's Day, Saturday 17 March 2012 have just been announced. Full rules and information are available at www.irts.ie/cqir or by email to cqir@irts.ie

LX75 - Luxembourg. In 2012, amateur radio operators in Luxembourg will celebrate the 75th anniversary of the foundation in 1937 of Radio Amateurs of Luxembourg. In order to start the activities the RL launches a special RL 75th Anniversary Award. During 2012, the special call sign LX75RL will be activated by its members and as you can imagine counts for many points for the award. For the Award Rules please visit www.rlx.lu/lx_awards_files/rl_75.htm

International Museums Weekend. The International Museums Weekend special event will this year take place on the double weekends of 16/17 and 23/24 June. Radio amateurs are encouraged to participate in this event by setting up stations in their local museums. Organiser Harry, M1BYT, asks that all those intending to take part in the event should register their museum via the form on the International Museums Weekend website, www.ukradioamateur.co.uk/imw. He can be contacted via e-mail to harry.m1byt@tiscali.co.uk.

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 9 to 16 January 2012.

NAQCC-EU Monthly Sprint
18:00 - 20:00 UTC 9 January

Mode: CW

Bands: 80, 40, 20 m

Classes: Single Op

Max power: 5 watts

Exchange: RST, country and NAQCC no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: Each country in Europe; First country in each continent worked other than Europe

Key Type Mult: 2 x if straight key, 1,5 x if bug, 1 x if other





Score Calculation: Total score = total QSO points x total mults x key type mult
Submit logs by: 20:00 UTC 12 January 2012
E-mail logs to: submitlog@naqcc-eu.org
Upload log at:

<http://www.naqcc-eu.org/autologger/>
Mail logs to: M Ireland, MW3YMY, Pen-y-Gadlas, Ffordd Bryniau, Meliden, Prestatyn, Denbighshire LL19 8RD, UK
Find rules at:
<http://naqcc-eu.org/SprintHelp/SprintRules.pdf>

QRP Fox Hunt
02:00 UTC-03:30 UTC 11 January
Mode: CW
Bands: 80 m Only
Classes: Single Op - Fox or Hound
Max power: 5 watts
Exchange: RST, state, province or country, name and power output
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 03:30 UTC 12 January 2012
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at:
http://www.qrpfoxhunt.org/winter_rules.htm

CWops Mini-CWT Test
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 11 January and 03:00 - 04:00 UTC 12 January
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Op - QRP, low or high
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts
Exchange: Member: Name and Member No; non-Member: Name and state, province or country
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: Each call once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 04:00 UTC 14 January 2012
Post log summary at:

<http://www.hornucopia.com/3830score/>
Mail logs to: (none)
Find rules at:
<http://www.cwops.org/onair.html>

QRP Fox Hunt
02:00 - 03:30 UTC 13 January
Mode: CW
Bands: 40 m Only
Classes: Single Op - Fox or Hound
Max power: 5 watts
Exchange: RST, state, province or country, name and power output
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 03:30 UTC 14 January 2012
E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at:
http://www.qrpfoxhunt.org/winter_rules.htm

NCCC Sprint Ladder
02:30 - 03:00 UTC 13 January
Mode: CW
Bands: 160, 80, 40, 20, 15 m
Classes: Single Op
Max power: 100 watts
Exchange: (see rules)
Work stations: Once per band
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 15 January 2012
E-mail logs to: (none)
Post log summary at:
<http://www.hornucopia.com/3830score/>
Mail logs to: (none)
Find rules at:
<http://www.ncccsprint.com/rules.html>

Hunting Lions in the Air Contest





00:00 UTC 14 January to 24:00 UTC 15 January

Mode: CW, SSB, Digital, Echolink

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op; Multi-Single; SWL; Internet

Max operating hours: 48 hours

Exchange: Lions Club: RS(T), serial no, Op name, Club name and District no; non-Lions Club: RS(T) and serial no

Work stations: Once per band

QSO Points: (see rules)

Multipliers: Each Lions, Leo or Lioness club, once only

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 27 February 2012

E-mail logs to: lions@vsnl.net

Mail logs to: The HLITA Contest Committee, Lions Club of Bangalore North, C/O Lion Ajoy - VU2JHM, # 9/1, Kshitija, Opp Big Bazaar, 5-Cross, Malleswaram, Bangalore-560003, India

Find rules at:

<http://lionshuntingintheair.lionwap.org/>

WW PMC Contest

12:00 UTC 14 January to 12:00 UTC 15 January

Mode: CW, SSB

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op CW, SSB or Mixed - Peace Messenger City or World - QRP, low or high Multi-Op CW, SSB or Mixed - Peace Messenger City or World

Exchange: PMC: RS(T) and PMC abbreviation; World: RS(T) and CQ Zone

Work stations: Once per mode per band

QSO Points: (see rules)

Multipliers: Each PMC once per mode per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 14 February 2012

E-mail logs to: pmc@s59dcd.si

Mail logs to: (none)

Find rules at:

http://www.s59dcd.si/english/index.php?option=com_content&view=article&id=72&Itemid=114

MI QRP January CW Contest

12:00 UTC 14 January to 23:59 UTC 15 January

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: 250 mW; 250 mW - 1 W; 1 - 5 W; >5 W

Exchange: Members: RST, state, province or country and membership no; non-Members: RST, state, province or country and power output

Work stations: Once per band

QSO Points: 5 points per QSO with members; 2 points per QSO with non-member W/VE stations; 4 points per QSO with non-member DX stations

Multipliers: Each state, province or country, once per band; Bonus: multiply total points by 1.25 if xmtr or receiver is homebrew; multiply total points by 1.5 if both xmtr and receiver are homebrew

Score Calculation: Total score = bonus multiplier x total QSO points x total mults

Submit logs by: 14 February 2012

E-mail logs to: n8xx@arrl.net

Mail logs to: Hank Greeb, N8XX, 5727 11 Mile Rd. NE, Rockford, MI 49341, USA

Find rules at:

<http://www.qsl.net/miqrpclub/contest.html>

UK DX RTTY Contest

12:00 UTC 14 January to 12:00 UTC 15 January

Mode: RTTY

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op - low or high; Multi-Single

Max power: HP: >100 watts; LP: 100 watts

Exchange: UK: RST and UK area code; non-UK: RST and QSO no

Work stations: Once per band

QSO Points: 1 point per QSO with same country; 2 points per QSO with different country same continent; 3 points per QSO with different continent; 5 points per QSO with UK (non-UK stations only)

Multipliers: Each DXCC country once per band; Each UK area once per band





Score Calculation: Total score = total QSO points x total mults

Submit logs by: 14 February 2012

E-mail logs to: ukdxc@scotham.net

Mail logs to: UK DX RTTY Contest Committee, PO Box 7469, Glasgow, G42 0YD, Scotland UK

Find rules at:

<http://www.ukdxc.srars.org/ukdxc.pdf>

North American CW QSO Party

18:00 UTC 14 January to 06:00 UTC 15 January

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP or low; Multi-Two - low

Max operating hours: Single Op: 10 hours; Multi-Two: 12 hours

Max power: LP: 100 watts; QRP: 5 watts

Exchange: NA: Name, state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 28 January 2012

E-mail logs to: (none)

Upload log at:

<http://www.ncjweb.com/nagplogsubmit.php>

Mail logs to: Bruce Horn, WA7BNM, 4225 Farmdale Avenue, Studio City, CA 91604, USA

Find rules at:

<http://www.ncjweb.com/nagprules.php>

NRAU-Baltic CW Contest

06:30 - 08:30 UTC 15 January

Mode: CW

Bands: 80, 40 m

Classes: Single Op Only

Exchange: RST, serial no and 2-letter region

Work stations: Once per band

QSO Points: 2 points per QSO

Multipliers: Each region, once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 31 January 2012

E-mail logs to: oz5wq@edr.dk

Mail logs to: NRAU-Baltic Contest, Peter Vestergard, Vestervej 74, DK-4960 Holeby, Denmark

Find rules at:

<http://www.sk3bg.se/contest/nrau.htm>

NRAU-Baltic SSB Contest

09:00 - 11:00 UTC 15 January

Mode: SSB

Bands: 80, 40 m

Classes: Single Op Only

Exchange: RS, serial no and 2-letter region

Work stations: Once per band

QSO Points: 2 points per QSO

Multipliers: Each region, once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 31 January 2012

E-mail logs to: oz5wq@edr.dk

Mail logs to: NRAU-Baltic Contest, Peter Vestergard, Vestervej 74, DK-4960 Holeby, Denmark

Find rules at:

<http://www.sk3bg.se/contest/nrau.htm>

Run for the Bacon QRP Contest

02:00 - 04:00 UTC 16 January

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Band; All Band

Max power: 5 watts

Exchange: RST, state, province or country and member no or power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent

Multipliers: Each state, province or country once; Multiply mults by 2 if >50 members worked

Score Calculation: Total score = total QSO points x total mults





Submit logs by: 22 January 2012
E-mail logs to: (none)
Upload log at:
<http://www.fqgrp.com/autolog.php>

Mail logs to: (none)
Find rules at:
<http://www.fqgrp.com/fqgrpun.php>

Next Week's Contests

QRP Fox Hunt, 02:00 - 03:30 UTC 18 January
AWA Linc Cundall Memorial CW Contest, 23:00 UTC 18 January to 23:00 UTC 19 January and
23:00 UTC 21 January to 23:00 UTC 22 January
NAQCC Straight Key/Bug Sprint, 01:30 - 03:30 UTC 19 January
QRP Fox Hunt, 02:00 - 03:30 UTC 20 January
NCCC Sprint Ladder, 02:30 - 03:00 UTC 20 January
LZ Open Contest, 00:00 - 04:00 UTC 21 January
YL-ISSB SSB QSO Party, 00:00 UTC 21 January to 23:59 UTC 22 January
Hungarian DX Contest, 12:00 UTC 21 January to 11:59 UTC 22 January
Feld Hell Sprint, 16:00 - 18:00 UTC 21 January
North American SSB QSO Party, 18:00 UTC 21 January to 06:00 UTC 22 January

History This Week

A look back at events that made history this week - compiled by the Summerland Amateur Radio Club of Lismore, NSW and Dennis, ZS4BS. The week starting Monday 9 January 2012.

1404 - English alchemists were forbidden to use their knowledge to create precious metals
1759 - The British Museum, in Bloomsbury, London, the world's oldest public national museum, opened
1799 - Income Tax (temporary) introduced in UK at 10% to pay for Napoleonic Wars
1806 - Cape of Good Hope becomes an English Colony (9 Jan)
1816 - Sir Humphry Davy's safety lamp was first used in a coalmine
1820 - Stainless steel invented by French metallurgist
1840 - Penny Post mail system started (10 Jan)
1878 - The first demonstration of A G Bell's telephone to Queen Victoria at her Osborne House estate on the Isle of Wight
1894 - "Edison Kinetoscopic Record of a Sneeze" released in movie theatres
1906 - First radio set advertised (Telimco for \$7.50 in Scientific American) claimed to receive signals up to one mile
1907 - The three-element vacuum tube was issued a US patent to its inventor, Dr Lee de Forest
1908 - A wireless message was sent long-distance for the first time from the Eiffel Tower in Paris; Henry Ford introduces the Model T car (10 Jan)
1913 - Continuous moving assembly line introduced by Ford - a car every 2:38 (12 Jan)
1920 - The League of Nations is established (10 Jan)
1935 - Spectrophotometer patented by AC Hardy (9 Jan)
1946 - US Army at Belmar, New Jersey, established first radar contact with the moon (10 Jan)
1959 - 12 Nations sign a treaty for scientific peaceful use of Antarctica; first colour photograph of earth received from outer space (12 Jan)





Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News, Southgate ARC and Pete's DX Newsdesk.

Newsletter editors are most welcome to use material from HF Happenings, just remember to acknowledge the source (which could be any one of the names mentioned above). HF Happenings can be provided in MS Word format.

SARL News

Time (UTC / CAT)	Freq (kHz)		Target Area	Language
06:15 / 08:15 *	7 066 / 7 098	From Pretoria /	Southern Africa	Afrikaans
06:30 / 08:30 *	7 066 / 7 098	Port Elizabeth	Southern Africa	English
Various 2 metre and 70 cm repeaters and Echolink country wide				

Amateur Radio Today

Time (UTC / CAT)	Freq (kHz)		Target Area	Language
08:00 - 09:00 /	7 082	From Durban	Southern Africa	English
10:00 - 11:00 *	Various 2 metre and 70 cm repeaters and Echolink country wide			

Amateur Radio Today shortwave broadcast information.

Time (UTC / CAT)	Freq (kHz)	Tx kW	Target Area	Language
08:00 - 09:00 /	7 205	100	Southern Africa	English
10:00 - 11:00 *	17 760	250	East Africa	English
17:30 - 18:30 /	4 895	100	Southern Africa	English
19:30 - 20:30 **				
* Sunday ** Monday				

Amateurradio in Aksie

Dorp	Frekwensie	Tyd en dekking
Bloemfontein	145,600 MHz	Maandagaande 20:30 vanaf die Naval Hill herhaler
Kaap	145,700 MHz	Maandagaande 20:30 in die Boland
Pretoria	145,750 MHz	Woensdagaand net na die ZS6MRK bulletin
Pretoria HF	3 680 kHz	Woensdagaand net na die ZS6MRK bulletin
Rustenburg	145,500 MHz	Maandagaande 20:30
Sasolburg	145,600 MHz	Maandagaande 20:00 dekking in die hele Vaaldriehoek

